AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A speaker system, comprising:
at least one transducer;
at least one speaker analog circuit; ~~and~~
a diagnostics circuit ~~coupled to the at least one transducer and the at least one speaker analog circuit, and generating at least one test signal routed to the speaker analog circuit, the transducer and to an analog activity sensor, the test signal being sampled by the analog activity sensor before and after transmission to the speaker analog circuit~~ including a first test circuit and a second test circuit;
the first test circuit being for analog diagnostics actuated in response to a diagnostic mode selection being made for generating one or more test signals for analog circuitry diagnosis and speaker diagnosis; and
the second test circuit generating a signal to an AC power test indicator for indicating sufficient AC power being supplied to the speaker system and to an AC-to-DC conversion circuit for generating multiple DC voltages for providing analog diagnostic information indicating a sufficient supply of DC power for circuits in the speaker system.

2. (Original) The speaker system recited in Claim 1, wherein the diagnostics circuit further comprises a power diagnostics circuit.

3. (Original) The speaker system recited in Claim 2, wherein the power diagnostics circuit further comprises:
a rectifier; and
at least one AC power test indicator coupled to the rectifier.

4. (Cancelled).

5. (Cancelled).

6. (Currently Amended) The speaker system recited in Claim 5, wherein the analog diagnostics circuit further comprises:
a diagnostic mode activation mechanism~~; and~~
~~a diagnostic signal generation circuit coupled to the diagnostic mode activation mechanism and coupled to the at least one speaker analog circuit~~.

7. (Cancelled).

8. (Previously Presented) The speaker system recited in Claim 1, wherein the analog activity sensor further comprises at least one transistor.

9. (Previously Presented) A speaker system recited in Claim 1, wherein the analog activity sensor further comprises at least one comparator.

10. (Original) A speaker system recited in Claim 6, wherein each at least one transducer is coupled to the diagnostic signal generation circuit.

11. (Cancelled).

12. (Currently Amended) A computer system comprising:
a processor;
a memory coupled to the processor;

a speaker system coupled to the processor, wherein the speaker system includes a diagnostics circuit including a first test circuit and a second test circuit;

the first test circuit being for analog diagnostics actuated in response to a diagnostic mode selection being made for generating one or more test signals for analog circuitry diagnosis and speaker diagnosis;

the second test circuit generating a signal to an AC power test indicator for indicating sufficient AC power being supplied to the speaker system and to an AC-to-DC conversion circuit for generating multiple DC voltages for providing analog diagnostic information indicating a sufficient supply of DC power for circuits in the speaker system; and

at least one transducer.; ~~and~~

~~at least one speaker analog circuit, wherein the diagnostics circuit is coupled to the at least one transducer and the at least one speaker analog circuit, and generating at least one test signal routed to the speaker analog circuit, the at least one transducer and to an analog activity sensor, the test signal being sampled by the analog activity sensor before and after transmission to the speaker analog circuit~~

13. (Cancelled).

14. (Original) The computer system recited in Claim 12, wherein the diagnostics circuit further comprises a power diagnostics circuit.

15. (Original) The computer system recited in Claim 14, wherein the power diagnostics circuit further comprises:
a rectifier; and
at least one AC power test indicator coupled to the rectifier.

16. (Cancelled).

17. (Cancelled).

18. (Currently Amended) The computer system recited in Claim 17, wherein the analog diagnostics circuit further comprises:
a diagnostic mode activation mechanism~~; and~~
~~a diagnostic signal generation circuit coupled to the diagnostic mode activation mechanism and coupled to the at least one speaker analog circuit~~.

19. (Cancelled).

20. (Previously Presented) The computer system recited in Claim 12, wherein the analog activity sensor further comprises at least one transistor.

21. (Previously Presented) The computer system recited in Claim 12, wherein the analog activity sensor further comprises at least one comparator.

22. (Original) The computer system recited in Claim 18, wherein each at least one transducer is coupled to the diagnostic signal generation circuit.

23. (Cancelled).